



30 Jul 1947

The Missouri Miner, July 30, 1947

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Editorials

VET PAY BOOST
DELAYED

WHAT WHERE & WHEN

WEDNESDAY, JULY 30
A.P.O. Club Room, Power Plant
Bldg., 7:30.
THURSDAY, JULY 31
ASME, Room 204 Mechanical
Hall, 7:30.
FRIDAY, AUGUST 1
U. Dames, Room 108, Norwood
Hall, Shorthand Class, 7:30.

Coal Education "Excellent" In School Dept.

Mr. M. D. Cooper, who is manager of vocational training for the National Coal Association, visited the Mining Department last Monday and after seeing the facilities of the school for instruction in coal mining said that he thought education in this field as offered by the Missouri School of Mines is excellent.

Mr. Cooper is making a tour of the educational institutions in the U. S. which teach mining in order to determine the quality and quantity of instruction the students are receiving in the field of coal, especially bituminous coal. According to Mr. Cooper the National Coal Association has begun to realize that education in this field is not advancing as it should so they are now trying to find out why and, if possible, to remedy this situation.

Besides having visited thirty-five schools of higher learning, Mr. Cooper has also visited some high schools in an effort to stimulate the interest of these students. This is done by showing the students a film about the coal industry and discussing with them some of the problems and advantages this field has to offer.

Mr. Cooper explained: "Most people today seem to think of the coal industry in terms of strikes and disasters. We are trying to show these young people that there are many advantages in opportunities and salaries in this field which do not receive as much publicity as these things do."

Mr. Cooper received his degree in mining at Yale with the class of 1912 and until recently has been concerned almost entirely with coal production. He was general superintendent of a large Pennsylvania coal company at the time of his appointment as manager of vocational training for the NCA. "The Missouri School of Mines is known as a 'hard rock' school so I was surprised and well pleased with the excellent instruction and training being given to those students interested in coal."

McDonald Wins AIMME Award In St. Louis Section

"Mac" McDonald, a senior in the Mining Department, has turned to intellectual means, rather than physical labor, to help his financial position and is doing very well in the AIMME essay contests. "Mac" won the Steinmetz Award of twenty-five dollars with his essay "Freezing Process As Used in Sinking of Shafts in Water Bearing Strata." This essay contest was sponsored by the local chapter of the AIMME and is an annual occurrence.

According to "Mac" the water bearing strata is consolidated by pumping refrigerated brine through pipes sunk around the shaft site. The shaft can then be sunk through this frozen area without cave-ins.

This essay also won 25 dollars in a contest sponsored by the St. Louis section of the AIMME and has been resubmitted by this organization to the national AIMME essay contest.

The school has recently received a shipment of alloy steel bits manufactured by Ingersoll-Rand. These new type drill bits for rock are reputed to be outstanding in operation. According to Dr. Forrester one of the Mining students will make a study of the drilling characteristics of these "carbide" bits.

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THE MISSOURI MINER

Missouri School of Mines & Metallurgy

VOLUME 33

ROLLA, MO., WEDNESDAY, JULY 30, 1947

NUMBER 37

Grade Point List For Spring Term Released

The grade point averages attained by the Social Fraternities, the Classes and the entire student body of the Missouri School of Mines for the Spring Semester of 1946-47 contained in the following list shows that all of the organizations maintained the 1.00 average necessary for graduation.

Graduate Students topped the list this time with an average of 2.16.

In the listing of the classes the Seniors attained top rating with an average of 1.643 followed by the Juniors with 1.455, the Sophomores with 1.312 and the Freshmen with 1.236.

The Women students on the campus topped the men students with an average of 1.490 to 1.400. Veteran students compiled a slightly better average than Non-Veteran students with 1.406 to the Non-Veterans 1.375.

Students in the Unclassified, Special and Veteran Short-Course category compiled an average of 1.335.

The total average of all of the fraternities was 1.358, and for the entire school 1.401.

The fraternities ranked in the following order:

Sigma Phi Epsilon	1.701
Chi Sigma	1.697
Sigma Pi	1.499
Lambda Chi Alpha	1.441
Independents	1.416
Kappa Sigma	1.389
Alpha Epsilon Pi	1.387
Triangle	1.385
Sigma Nu	1.354
Kappa Alpha	1.332
Theta Kappa Phi	1.297
Tau Kappa Epsilon	1.196
Pi Kappa Alpha	1.138

Electricals Plan Outing In August

At the first summer meeting of the MSM branch of the American Institute of Electrical Engineering, over 100 students overflowed Room 104 Norwood last Wednesday evening to see three films, and to set the date for the coming AIEE picnic.

The first movie was on Frequency Modulation and explained in simple terms the advantages of FM over the commonly used type of radio transmission (Amplitude Modulation). FM has no static as the FM carrier wave doesn't suffer from interference because there is no overlapping of wavebands as FM wavelengths are much further separated on the air than conventional radio wavelengths. The program volume is constant because FM can only be transmitted to the horizon of the station, and therefore the listener gets the waves directly and not bounced off the heavy layer of the atmosphere. The range of frequencies able to be transmitted by FM covers all the frequencies the ear can hear and therefore FM conveys all the sounds that are broadcast much more naturally than ordinary radio which just covers a portion of the ear's range. The main result of this property of FM broadcasting is sound reproduction on the radio much clearer and of a much better quality than on an AM radio.

GE Plant Shown
Another reel showed G. E.'s huge Schenectady plant in operation. It showed the process of manufacturing huge turbines, dynamos, refrigerators, transformers and many of the household utensils such as the egg beater. The outlookers were given some idea of the scope and size of the electrical industry by watching the huge efficient assembly lines in action.

The last movie showed what went on behind the scenes in television. It explained the simple basic theory underlying television and then the audience learned what went into a television broadcast. The sets closely resembled those of the movies with the big exception that in television there are no "retakes."

Picnic Planned
After the movies the members of the AIEE completed plans for their summer picnic. The date was set for Sat., August 9. It will take place at the Rolla Country Club on the Gasconade. The "affair" will be staged and the transportation be made by the committee. Several are able to reach the area. Several cars were rounded up among the EE faculty and the rest were requisitioned from EE's seen riding (Continued on Page 4)

Met Lab To Move Into Exp. Station

For those who are curious about the activity in and around the Met. Dept., an explanation seems to be in line. A great change is taking place as should become quite evident within the coming month. Since the Bureau of Mines has vacated their space at the Experiment Station Building, the Met. Dept. is rapidly filling in. The move will definitely be of great significance to at least one person on the campus. Changing buildings after thirty-four (34) years of service in one, surely gives Prof. "Boots" Clayton something to think about.

In transferring to the new building, Prof. Clayton is taking a considerable amount of equipment with him. This includes the grinding and polishing equipment, which is used in the preparation of metallic specimens; the small microscopes and the large Bausch & Lomb microscope, which are used in the microscopic examination of the metallic specimens. The heat-treating laboratory and metal-working equipment will also be transferred. The majority of the above mentioned equipment makes up the Metallurgy section of the Met. Dept. With the aid of this type of equipment the study of metals and their alloys, as well as their structures and the influence of heat-treating, can best be taught to the potential engineer.

New Furnace Installed

Already installed in the Experiment Station Building, is a new 35 KVA Induction furnace. This single item should increase the efficiency of the department considerably. In the near future a new "Crushing and Grinding" room is to be installed and will be used in the study of Ore Dressing. Prof. Legsdin has the monopoly over this subject at the present. The new equipment will replace some of the antiquated equipment now in use in the Met. Building.

Also on the agenda is the installation of an X-Ray Diffractometer for the study of metallic structures. The X-Ray analysis is somewhat similar to the microscopic analysis but involves different methods of examination, and the X-Ray method is relatively new compared with the microscopic method.

Metallurgist From England Inspects MSM Laboratories

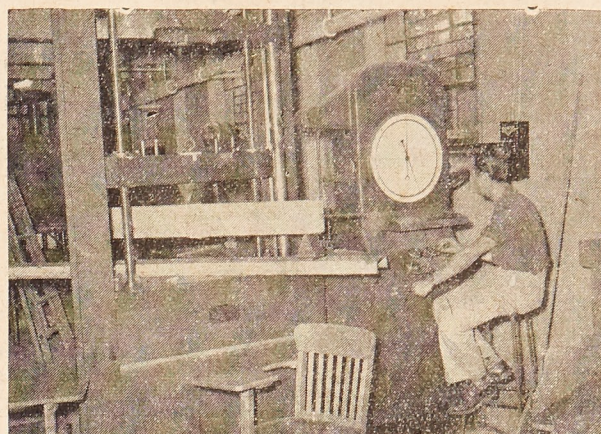
A recent visitor to the campus was Mr. E. J. Pryor, of the Royal School of Mines, London, England. Mr. Pryor is the Lecturer in Mineral Dressing at the well known English school and is on an extended tour of the United States visiting metallurgical laboratories and plants.

According to Mr. Pryor, the Mineral Dressing laboratories at the Royal School of Mines are old and inadequate. He hopes to obtain new ideas for the renovation of his laboratories by observing the equipment and arrangements used in this country.

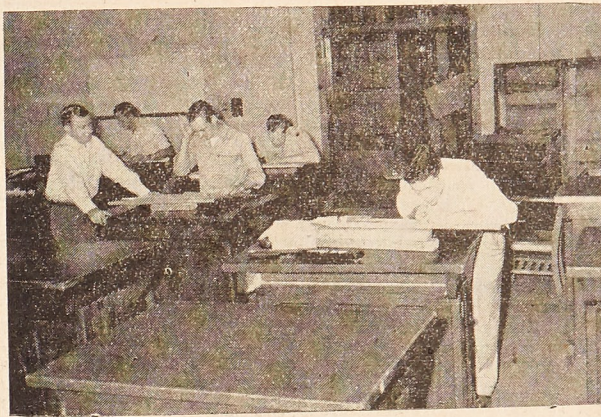
In addition to the technical information that he was accumulating, Mr. Pryor remarked that he enjoyed being able to observe college life in the U. S. which differs so much from that in England. He went on to state that the Royal School of Mines is the only educational institution in England giving courses comparable to those at the Missouri School of Mines and Metallurgy and that they now have a very large enrollment of 80 students.

NOTICE
Purchase authorization cards for the Summer Session, 1947 will be void after August 2, 1947. No cash refunds will be made by the Business Office after this date.
(s) Harry J. Fields,
Business Manager

Civil Department Scenes



Upper: Ollie Wafer, senior civil, runs a transverse test on concrete beam on Tinius Olsen Hydraulic testing machine. Lower: Laboratory in Stresses In Frame Structures; Prof. McKinney at far left.



Civil Department Here Keeps Up With Times

The MSM Civil Department has been rapidly expanding since the end of the war and the large influx of students. In this department, as in all of the other departments, it has been necessary to increase the equipment and training facilities in order to adequately instruct the large number of potential civil engineers.

It has always been a problem to have a sufficient number of levels and transits to supply all the surveying classes. The recent addition of ten Brunson dumpy levels, four transits, and two theodolites has eased the problem. The theodolites have a fine degree of accuracy, and make possible the reading of very minute angles.

In connection with hydraulics, the department has set up a laboratory displaying numerous applications and phenomena of water power. There has been constructed a Venturi meter, which actually demonstrates the vacuum present in a constricted pipe, by sucking water out of the container. The various types of orifice and weir flows, under varying heads, are shown by an assortment of odd looking contraptions. Pressure gauges of all descriptions decorate the walls.

Recently the Civil Department

purchased a beautiful piece of apparatus called a Gold and Silver Bullion Scale from the War Assets Administration. It somewhat resembles the analytical balances used in chemistry, except that it stands about four feet high and has weights ranging from one to one hundred and ninety one pounds. This gadget presents a bit of a problem, however, for no one has been able to find a good use for it. Undoubtedly time will provide for its appropriate application.

The Mechanics Department has a great deal of testing apparatus in the basement of Harris Hall. One very impressive piece of machinery, a Tinius Olsen Testing Machine with a capacity of 60,000 pounds, is at the convenience of the materials testing classes. Recently the classes of Highway Materials Testing have been measuring the compressive strength of various samples of concrete blocks in this machine.

This is merely a scanning coverage of the expansion and development of the Civil Department. With the addition of the new Harris Hall Annex greater things are expected, the outcome of which will be better civil engineers emerging from MSM.

Keramos, Honorary Frat. For Ceramists, Installed

Installation of the "Keramos," honorary Ceramics Fraternity took place Saturday morning July 26, 1947, the ritual being secret and closed to the public.

The installing team consisted of Prof. C. M. Dodd, Grand President; Dr. A. I. Andrews, Grand Vice President; Dr. S. R. Scholes, Grand Treasurer; and Dr. P. G. Herold, Grand Secretary. Professor A. F. Greaves-Walker, Grand Herold, was unable to attend, however his place was filled by Prof. H. G. Beckemeyer of Iowa State.

The original Keramos Fraternity was organized at the University of Illinois in February, 1915, as a professional fraternity. Selection for membership was based on scholastic ability, interest in ceramic work, and promise to attain in that field, and upon personal qualifications. Its object were the stimulation of interest in ceramic training and in research in the activities of the Amer-

ican Ceramic Society. In the first years of its existence it was required that the initiate be an associate or an active member of the American Society of Ceramics. This requirement was dropped when the student branches of the American Ceramic Society were established.

Keramos, the Greek word for pottery or clay products, was chosen as a significant name for the fraternity, and a ritual was developed which was based on the history and mythology of the ancient Greek potters. The palmetto, symbol of these ancients was chosen as the central figure in the badge.

This organization is established to provide a professional fraternity open to outstanding students in the school, departments and division of Ceramics and Ceramic Engineering in Universities and Colleges of the United States and

Continued To Page 4

517 Attain Honor Roll For Spring Semester

Geology For Civils Topic Of ASCE

Mr. John Groshkopf, Assistant State Geologist of the State of Missouri, spoke on "Geology, as Applied to Civil Engineering", before the MSM Student Chapter of the American Society of Civil Engineers, at a meeting held at 7:30 P. M., Wednesday, July 24, in Harris Hall. Mr. Groshkopf received his B. S. in Mining Engineering with a Geology option from MSM in 1930, and stayed on to take his M. S. in 1931. While working for his masters degree he was employed by the Missouri Geological Survey, and after graduation remained with the bureau, becoming Assistant State Geologist in 1944.

Mr. Groshkopf brought out the fact that Civil engineers engaged in construction work and in the drawing up of specifications for various projects, often encounter geologic problems which, if unrecognized, lead to high construction costs, danger to workmen, and in extreme cases, may nullify the usefulness of the entire project. He urged all civils to take basic courses in Physical Geology, Structural Geology, and in Rock Types, with particular attention to water flow, shaping of land forms, action of ice and water, folding and faulting, and construction materials. Although the civil engineer does not need a detailed or specialized knowledge of geology, he should have sufficient knowledge of the subject to recognize a situation where geologic features may influence his work. In such cases, a consulting geologist should be employed before construction begins.

Professional geologists are available for consultation in most areas of the country, and well qualified men are to be found on the faculties of most engineering schools. The USGS will supply tabulated information on rivers as well as on topographic and other geologic features, at small cost. However the state geologists can supply more detailed information on geological formations within their domains, and no charge is made for this service.

Cases Cited

Mr. Groshkopf cited many instances in which geology had profound influence on construction projects. When specifications were drawn up on a grading job for the construction of the Springfield, Mo., Municipal Airport, the con-

Continued To Page 4

'New Automobiles' Film For ASME Meeting Thursday

Members of the American Society of Mechanical Engineers and interested students will be entertained by a film entitled "New Automobiles" at the meeting of the organization on Thursday, July 31, at 7:30 p. m. in Room 210 Mechanical Hall.

This film is the first documented report in a sound motion picture of the problems facing the automotive industry. It brings before the camera's eye many little known facts about the business of making passenger cars in these trying post-war days, together with the efforts of the motor car plants to overcome scarcities.

The camera's eye roams over the farmer's field, one pits and other raw material sources, follows these products through various fabricating processes, and on to final motor car assembly lines.

This film was prepared by the Television Division of the American Broadcasting Company in Cooperation with the Automobile Manufacturers Association. Critics acclaim this film one of the most significant documents yet compiled about a national problem affecting the lives of all citizens.

There is a guy who still insists on trying to get information on the "Girl's School" which was to be built here in Rolla. That was in an article printed in the MINER last fall with date line April 1. We understand he has taken an apartment and bought a new tie.

The high scholastic caliber of the students at the Missouri School of Mines is borne out by the following list of Honor Students for the Spring Semester 1946-47. To become eligible for the Honor List a grade point average of 1.75 or over for his college career he will graduate with honors. The list shows that 139 Seniors, 140 Juniors, 90 Sophomores, 130 Freshmen and 18 students in the Unclassified, Special and Veteran Short-Course category achieved the coveted average. This means that 517 students out of 2176, or 23.8% of the student body performed honor list work last semester.

The students listed below were on the Honor List for the Spring Semester, 1946-47.

SENIORS

Adrian, Kenneth G.; Amadon, Harold O.; Amel, Richard D.; Anderson, Walter F.; Armstrong, Robert J.; Baillie, Cecil C.; Baillie, Keith R.; Beezley, Joel W.; Bell, Elmer W.; Bell, Warren H.; Bennett, Eugene W.; Bennett, Jaul M.; Black, J. B.; Blair, Edward B.; Boaz, Leonard R.; Boswell, Paul R.; Bosworth, Hartley M.; Broadbent, Elmer R.; Brown, Dale J.; Browning, Phil A.; Browning, Charles M.; Bruce, Charles A.; Bruzewski, Robert F.; Burnett, Lynn F.; Capelle, Henry T.; Carlton, Paul F.; Chubb, Walston; Collier, Donald H.; Cooper, John A.; Counts, Charles R.; Cross, Kimble W.; Cueto, Eloy M.; Dasso, Andres T.; Den Boer, John H.; Denton, Roy V.; Deuber, George B.; Devine, Robert F.; Dunham, Roy H.; Dziemianowicz, Theodore; Emspanier, Bernard J.; Ellis, William Ashley; Enochs, Richard C.; Frankowitz, Joseph F.; Fuldner, Arthur H.; Fulghum, Gale; Fullop, Paul; Galavis, Hely J.; Garthwaite, Delbert; Giltner, Benedict C.; Ginzberg, M. Gerson; Harms, Harold B.; Harville, Willis H.; Hasko, Stephen; Henke, Elvin A.; Henry, George E.; Herrman, Jack O.; Holliday, Henry W.; Howard, William E.; Hudgens, Ellsworth; Janboretz, Lawrence J.; Joffe, Gerhard E.; Jonk, Robert E.; Jones, Eugene F.; Jones, Thomas D.; Kane, Leonard F.; Kaplan, Charles S.; Kasten, John W.; Kelson, Jack W.; Kendall, Robert H.; Kinder, Ivan P.; Koch, Donald H.; LaPiere, Gilbert H.; Leake, William A.; Leaver, Harvey H.; Lewis, Dwight E.; Liddell, John W.; Little, James E.; Locher, J. Hartley; Loucks, Earl W., Jr.; Lowder, Donald G.; McDonald, Malcolm; McGuire, Albert G.; McKinneil, William P.; McKinnis, Charles L.; Mefford, Nace F.; Merritt, Glenn E.; Moline, Gordon H.; Mueller, John D.; Niewoehner, Kenneth E.; Orton, Robert F.; Perryman, George I.; Rainey, Charles R.; Ranes, James W.; Reed, Charles W.; Reinert, Donald O.; Rhoads, Donald E.; Riedmeyer, Robert E.; Riley, Don A.; Roderique, Francis O.; Sachs, Herbert B.; Saenz, Rigoberto; Scheneman, John A.; Schork, John E.; Sheppard, Keith D.; Smith, David G.; Smith, James A.; Smith, Rex E.; Sperberg, Richard A.; Stephens, James W.; Stocker, Wilbert F.; Stumpe, Russell E.; Tapperson, Arthur; Tappmeyer, Ronald A.; Tarson, Samuel; Trace, James J.; Treon, May; Tucker, Philip A.; Vaida, Peter P.; Valle-roy, Vincent V.; Van Amburg, Albert L.; Vogt, Joseph C.; Vogt, Robert A.; Wagner, George H.; Walker, Richard A.; Walpert, George W.; Weddle, Wilburn L.; Weeks, Jay L.; Westmoreland, Edwin S.; Whaley, Henry P.; White, Robert L.; Wilks, Rayburn A.; (Continued on Page 4)

Two Initiated At Tau Beta Meet

The grade-point boys, Tau Beta Pi, held their last meeting of the summer session the night of the 22nd. They opened the meeting by singing their theme song "How Could Old MSM Keep Rollin' Along Without Her Wheels, Wheels, Wheels?"

The main function of the evening was the initiation of two men who were gone on the senior trip at the time of the spring ceremony. The proud initiates were Robt. Doelling and Wm. McKinnell.

It was decided during the meeting that, due to lack of further business, operations would be suspended for the summer.



Sigma Pi Holds Lead As Teams Fight For Top

By Bill Downey

The softball schedule played thus far this summer has just about separated the men from the boys. The Sigma Pi's are still setting the pace, while the Kappa Sigs, the Junior-Seniors and the Sig Eps are about the only teams with a good chance for the championship. However, the six teams that have not yet lost four games still retain a mathematical chance for victory. The Engineers' Club, following in the footsteps of the St. Louis Cardinals this spring, have gotten off to a slow start, and it is to be hoped that they will soon pull out of their slump.

ALL-STAR GAME

It has recently been suggested that it would be a good idea to have some sort of an All-Star softball game later on this summer. An undertaking such as this would require the whole-hearted cooperation of all the teams in the league, and the players who would be involved. In the selection of players, the captains of the different teams would act as judges, and of course all teams would be represented. The game could possibly be followed by a small party at the Pennant for the winners, the losers the officials, the spectators, and others who may wish to come. All opinions and suggestion in regard to this matter should be deposited in the mind of Tom Wirfs or the writer of this article.

UPTOWN Theater

LAST TIMES THU, JULY 31

Ginger Rogers
Burgess Meredith
'The Magnificent Doll'

FRI., SAT., AUGUST 1-2
Glenn Ford — Janis Carter
'FRAMED'

SUN., MON., AUGUST 3-4
Sunday continuous from 1 p. m.
Jackie 'Butch' Jenkins
'My Brother Talks To Horses'

TUE., WED., AUGUST 5-6
Johnny Weissmuller
Brenda Joyce
'Tarzan and the Huntress'

Rollamo Theater

WED., JULY 30

Adm. 10 and 13c
Rosalind Russell
Jack Carson
'Roughly Speaking'

THU., JULY 31

Adm. 10 and 13c
Dennis Morgan — Andrea King
'God Is My CO-Pilot'

FRI., SAT., AUGUST 1-2

Sat. continuous from 1 p. m.
Adm. 10 and 25c
Gene Autry & Champion, Jr.
'Twilight on the Rio Grande'

SUN., MON., AUG. 3-4

Sunday continuous from 1 p. m.
Adm. 10 and 25c
Errol Flynn — Eleanor Parker
'Never Say Goodbye'

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EXCELLENT FOOD

HARVEY'S RESTAURANT

Racket - Raising



Montgomery of Sigma Pi serves to Bill Wibbling of Triangle in an intramural tilt last Thursday.

INTRAMURAL GOLF

The Intramural Golf tournament will be played off Saturday, August 16, starting at 1:00 p. m. The tournament will consist of 18 holes metal play. All entries must be in by Saturday, August 9. Pairings and the game times of each group will be published in the MINER on August 13.

BOX SCORE

Innings	1	2	3	4	5	T
Lambda Chi	0	0	0	0	0	0
Sigma Pi	6	3	2	5	x	16

Sig Eps vs. Pi K A

The Sig Eps came through for their fourth straight victory Tuesday afternoon, downing the Pi K A's, 5 to 3. Bill Hill, on the mound for Pi K A did a fine job, but in the fourth, the Sig Eps touched him for a four-run rally on several hits, errors and walks. Al Hudson hit that low-inside corner often enough to strike out four batters, and limit the Pi K A's to three runs.

BOX SCORE

Innings	1	2	3	4	5	T
Sig Eps	1	0	0	4	0	5
Pi K A	0	1	0	0	2	3

Triangle vs. Terrace

The amateur handicappers had a bad half-hour Wednesday afternoon as the favored Triangles trailed the Terrace Club, 4 to 0 at the end of two innings. However, Triangle came out of it in the third, scoring four runs, the first two of which might well have been on a silver platter. Then in the fourth, Vogt knocked out a long four-base hit to account for three of Triangles' four runs in that frame. Settling down after the first two innings, Wibbling, Triangle pitcher, held the opposition scoreless in their last three times at bat. Kennedy, Terrace Club pitcher, had good control but lack of support in the field was the deciding factor in the club's defeat.

Tennis Tilts Reach Finals Next Week

Sigma Pi and Triangle moved into the semi-final bracket of the doubles tennis tourney this week by defeating Sigma Nu and Theta Kappa Phi. Bogantes and Wright of Sig Pi defeated Eaton and Myer 6-1, 6-3, while Whaley and Jamboretz of Triangle defeated Weber and Knittel 4-2, 5-3. Triangle and Sigma Pi are matched this evening in what should be a hotly contested match. In another doubles match last week, Glasgow and Johnson of Terrace defeated the boys from Pi K A.

The singles tournament narrowed with Ollie Wafer of Sig Ep winning from Lambda Chi on a forfeit, and going on to defeat Werner of Sigma Nu 6-2, 6-2, in spite of a broken finger on his right hand, suffered in a softball game last week. Steinmeyer of Kappa Sig chalked up another victory by taking the measure of Harry Kuhn of Pi K A 4-1, 4-0. Bob Montgomery's strong serve and steady game proved too much for Bill Wibbling of Triangle Thursday eve, and Bob took the match for Sigma Pi 6-2, 6-1.

The final matches in the tennis program will be played on the MSM courts at 5:30 p. m. next Tuesday, August 5. Competition has been strong in the tourney, and the championship matches should prove to be an example of very good tennis. Come out and cheer your favorite to victory.

SOFTBALL STANDINGS

Organization	W	L	Pct.
Sigma Pi	8	0	1.000
Kappa Sig	5	1	.333
Junior - Senior	5	1	.333
Sig Ep	5	1	.333
Sigma Nu	6	3	.667
Triangle	4	2	.667
Fresh. - Soph.	4	3	.571
Terrace	3	4	.428
Pi K A	2	6	.250
Lambda Chi	2	8	.200
Kappa Alpha	1	5	.166
Theta Kap	1	6	.143
Engineers	0	6	.000

Horsemanship is the art of not letting the horse knock the sit out of you.

One ghost to another: "I'm hard of hearing, you'll have to speak louder."

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PHONE 77

DEAR MR. FROSH - SOPH:

We noted with some amusement the bantering we received in last week's Miner from the "umpire in chief" for our failure to play the Freshman - Sophomore softball team a game they had previously forfeited. Evidently "the umpire," who really should be acquainted with the law of averages, fails to doubt the fact that a two-headed coin won't turn up "tails" half of the time.

However, since it's "just laughs," we're after, the Sigma Pi "Beer Guzzling and Laughing Committee" would be only too happy to affix the royal seal to any appropriate challenge the Freshman-Sophomore team and their obstreperous backers would care to present for a post season battle between the two teams.

YOURS TRULY
SIGMA PI

SOFTBALL SCHEDULE

Wed. Kappa Sig vs. K A
Thurs. Sig Ep vs. Theta Kap
Fri. Kappa Sig vs. Jr.-Sr.
Pi K A vs. Frosh-Soph
Mon. Sigma Pi vs. Triangle
Terrace vs. K A
Tues. Kappa Sig vs. Sig Ep
Terrace vs. Engr. Club
Sigma Pi vs. Theta Kap

Girls raised on cod liver oil have legs like this !!

Girls who ride horses have legs like this ()

Girls who sit at bars have legs like this ()

But . . . little girls who were well brought up cross their legs like this X

Terrace Team New Threat To Frat Leadership In Sports

By Tom Wirfs

A new threat to fraternity supremacy in the intramural program has appeared this semester, with the entrance of Jacking Terrace into the MSM athletic program. The boys in the barracks are finally beginning to make their presence felt on the campus, thanks chiefly to the efforts of a spirited few in organizing the vets into a cohesive group. Much of the credit for the organization goes to Leo Slawski, a 28 year old sophomore metallurgist from Albany, N. Y. Leo is a veteran of four years army service, including eighteen months of duty in the European Theatre with the Eighth Infantry Division, and is the holder of two Purple Hearts for wounds in combat. A natural leader, Slawski has done a fine job in his position of chairman of the Sports Committee for Jacking Terrace. Another spark plug of the group is Tom Kennedy, freshman mining engineer from Drexel Hill, Pennsylvania. Tom returned to school after three years in the army, including two years in Italy with the 15th Air Force. In addition to serving as intramural manager for the group, Kennedy captains the softball team, and is one of the better pitchers in the summer league.

The Jacking Terrace softball team, somewhat lacking in experience this semester, has been improving rapidly, and will soon be a real threat to the league. What the players lack in skill, they make up in enthusiasm, and are doing pretty well considering the fact that many of the top teams in the league contain a high proportion of men who played steadily through the spring semester. Da Prima is doing a nice job at catch, and Bill Kelly, at short, is a hard man to get one by.

Third In Swimming

The swimming team of Slawski, Ronald, Evans, Corey, Glasgow, and Johnson gave the old outfit a shock when they took third place in the Intramural Swimming Meet. Glasgow, who captained the swimming team, is also a pretty fair outfielder, and also represents the group on the tennis team. The tennis team of Phil Piggot, Larry Glasgow, and Earl Johnson is still very much in the running at this writing.

All of which means that the group as a whole is assured of a good place in the final standings after their first semester of competition.

The Jacking Terrace group has about seventy men present this (Continued on Page 4)

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COMME

(Continued from page 1)

graduates with a total of 47 seniors and 6 graduates. The seniors are:

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Williams, Richard R.; Wilson, Jesse W.; Wilson, Lloyd H.; Wilson, William E.; Wisco, Alvin A.; Wylie, James E.; Yee, Bing Q.; Zwirbla, Michael C.

JUNIORS

Adams, Ben M.; Aubuchon, Edward L.; Banks, Hampden O.; Bauman, Harry C.; Beach, Lester C.; Bingham, Darwin; Birch, Bettjeanne; Bolanovich, Peter; Bottin, Lawrence T.; Bott, Winston F.; Boutin, Charles R.; Bowman, James R.; Brassfield, Henry C.; Brehe, Harold C.; Burke, Thomas F.; Bye, Stanley E.; Cardin, Audie V.; Collins, Joe, Jr.; Cook, John C.; Coolidge, William H.; Corbett, John E.; Costa, Eugene C.; Coulter, Gene G.; Day, Robert L.; Dean, Donald L.; Detjen, Don W.; Deelling, Robert F.; Dorn, Thomas E.; Doss, Glenn K.; Drago, William A.; Eichelberger, Charles E.; Eisenberg, Meyer; Ellis, Herman E.; Elmore, Charles H.; Fairchild, Robert L.; Fentz, A. Daniel; Fessler, Lloyd W.; Fine, Sidney A.; Flehman, Maurice H.; Flynn, Robert H.; Foley, William J.; Foster, Jack D.; Fronbarger, Odus L.; Gammon, William H.; Geiss, Edward A.; Gokenbach, Donald; Grady, William J.; Greenman, David W.; Gregg, George E.; Gregory, Robert O.; Hansen, Robert C.; Harbison, Walter C.; Hartmann, Robert F.; Hase, Donald H.; Hawthorne, Marion F.; Hillhouse, David; Hoehn, Earl E.; Hogan, William S.; Homes, Gerald D.; Hopkins, James S.; Howell, Theodore F.; Hrach, Stan R.; Hudson, Charles N.; Hughes, Edwin L.; Hyatt, Edmund P.; Irwin, Armon W.; Juergens, Raymond J.; Kasten, Max L.; Keeley, Gilbert S.; Keoley, James D.; Kemper, Robert J.; Krutinger, Virgil W.; Laird, Edward W.; Lanford, Hal G.; Leahy, John V.; Ledbetter, Carroll L.; Lenox, William H.; Lenzi, Charles; Long, Thomas B.; McCarthy, John F.; McColl, Gerald L.; McFarland, Charles E.; McGehee, Charles L.; McKelvey, Ralph E.; McKinney, John D.; Magruder, William H.; Marchal, Jacques; Martin, Robert L.; Matthews, Walter A.; Mead, William E.; Mitchell, Charles M.; Moe, Harold G.; Morgan, William A.; Mornin, Bob L.; Moss, Winston; Needham, John J.; Norman, Amos; Normann, Arnet; O'Neill, Lawrence F.; Osborne, John H., Jr.; Padfield, Ralph C.; Paschal, Edward F.; Peek, Charles A.; Perkins, Theroide W.; Perry, Robert C.; Pickett, Ray E.; Pierceall, Billy; Rankin, John F.; Ray, Billy Bruce; Raymer, Gordon E.; Rice, Daniel P.; Rodden, Wilden D.; Roehl, Ernest T.; Root, Robert L.; Ross, Jesse; Rother, William; Schaefer, Paul F.; Schalk, Norbert; Schenck, Frederick L.; Schneider, Richard A.; Shepherd, Alfred H.; Simpkin, William E.; Smith, Ed-

ward J.; Smith, Hubert R.; Southwick, Peter F.; Sphar, Curtie W.; Spitzig, Edgar W.; Straub, Harold E.; Tubielewicz, Thaddeus; Volz, Robert A.; Wagner, Carl L.; Wallace, John W.; Watkins, Paul A.; Wells, Vernon L.; Whanger, James R.; Withrow, Harold J.; Wolfarth, Teddy R.; Wood, James E.; Wurth, Maurice D.; Zinzinsky, Stanley.

SOPHOMORES

Agnew, Lewis E., Jr.; Allen, James B.; Anders, Robert B.; Apple, J. B.; Averbach, Philip; Barker, James A.; Barnett, Ben J.; Barrett, Marlin W.; Birch, Frank E.; Blankenmeister, Erwin; Bowley, Herbert L.; Bradford, Samuel A.; Breton, Ernest J.; Brown, Stuart S.; Bullock, Rupert E.; Carroll, John T.; Cloomey, Joseph R.; Coffey, Harold R.; Cook, Arthur Leo; Costley, Leon J.; Crawford, Don W.; Cullom, John T.; Da Silva, Anibal J.; Davidson, Charles C.; Deery, Robert E.; Dehecker, Lloyd T.; Demitas, Sinasi; Eyberg, Walbridge P.; Finlay, John F.; Giacomelli, Savino; Goller, Carl H.; Guth, Kenneth A.; Hale, Curtis K.; Hardin, Austin K.; Hartmann, Robert F.; Heibrier, Warren G.; Henne, Adolph G.; Hill, Elmer C.; Hogland, Virgil W.; Hymes, Charles R.; Pamieson, George W.; Jare, Jacob; Johnston, Henry M.; Jones, Albert A.; Kellogg, Glen W.; Klug, Robert L.; Knutson, Elmo G.; Koenig, Fred G.; Letizia, Daniel P.; Lundby, William; Lyons, Roger B.; Maag, Raymond H.; Magers, Wilbert J.; Martin, Richard E.; May, Ralph W.; Mertens, Keith A.; Mez, Kurt J.; Miller, Fred J.; Muehring, John E.; Murphy, William L.; North, Oliver S.; Peters, Robert E.; Pollish, Lloyd; Pollock, William E.; Reed, Charles J.; Rehagen, Herbert A.; Roach, Kenneth C.; Rossello, Philip; Ruff, Donald O.; Salomo, Walter E.; Saunders, Michael E.; Scales, Stanley; Schaefer, Emmett A.; Schmidt, Arthur L.; Short, Keith E.; Slawsky, Martin L.; Slusher, Robert C.; Spanberger, Lawrence; Stahl, Roy P.; Stobie, Allan B.; Szumachowski, Edwin R.; Turk, Carol G.; Turner, Clifford E.; Voiles, Cletus G.; Warsing, John W.; West, Leonard T.; Williams, Raymond T.; Winter, Eugene G.; Wood, Robert C.; Youngs, Lloyd P.

UNCLASSIFIED, SPECIAL & VETERAN SHORT-COURSE

Bray, Beryl; Brown, Willis W.; Buchholz, Henry D.; Culmo, Samuel A.; Fitzpatrick, Marion E.; Hickman, John W.; Horn, Victor R.; King, Cecil; Lindstruth, Robert W.; Livingston, Robert G.; Marino, John P.; Shackelford, John C.; Sphar, Virginia B.; Teall, Robert A.; Tichenor, Stanley H.; Underwood, Joanne; Young, Gordon L.

Cronk, Robert J.; Damp, Donald P.; Davis, Raymond W.; Davis, Robert E.; Deutch, Morton; Doll, John W.; Dunn, James T.; Eckert, Fred H.; Evans, Thomas R.; Ferry, Robert S.; Filer, Earle H.; Fossi, Robert L.; Foster, Charles T.; Frankenberg, Frank J.; Franklin, Robert O.; Frazier, Richard M.; Garino, Joseph E.; Gerler, Vernon M.; Greenberg, Aaron, Jr.; Gurley, Lannes L.; Hass, Paul A.; Hammond, James O.; Born, Werner C.; Hampson, Walter L.; Hart, Francis H.; Hart, Wayne D.; Haymes, William G.; Heath, Donald L.; Helwig, Arthur W.; Herman, John G.; Herzberger, Carl G.; Hixon, Claude M.; Hollingshead, Homer A.; Holmes, Rudolph N.; Horst, William E.; Hudson, Albyse J.; Hutchings, Louis E.; Imus, Ben W.; Jachick, John E.; Jeffries, Norman W.; Jett, John H.; Johnson, Frank A.; Johnson, Ray B.; Johnson, Robert A.; Kirby, John R.; Knappert, John W.; Knauer, Robert T.; Knepper, Andrew E.; Koppel, Peter J.; Kuehrich, Herbert P.; Kunz, Charles O.; Lewis, Herbert D.; Lichius, Kenneth W.; Lofman, Harry C.; McNally, Robert J.; Mann, Carl K.; Manocchio, Paul; Matthews, Charles W.; Megeff, Seymour; Mehler, Paul P.; Morse, Robert H.; Murphv, William M.; Nale-snyk, Daniel; Nickens, Thomas L.; Niederstadt, Norman A.; Niederstadt, Roland J.; Nolan, Paul B.; Parks, John W.; Passarelli, William G.; Perino, Pete R.; Porter, Robert C.; Rees, George A.; Remacle, Robert J.; Renner, Linus J.; Rentko, Robert J.; Robinson, Gene F.; Aoomerian, Richard J.; Rowe, Robert D.; Sabo, Virginia G.; Sanderson, Earl D.; Schieder, Eugene T.; Schoch, William; Shaf-fert, Leslie K.; Shaffer, Robert B.; Shaw, John C.; Shelton, Gerald C.; Shepard, William M.; Shopper, Sterling D.; Silver, Sidney; Sims, Dale E.; Spackler, Donald E.; Spangler, Lawrence; Steele, Robert R.; Stegemeier, Richard; Steinmetz, Charles E.; Stevens, Dale G.; Stewart, William H.; Stone, Marshall H.; Tatosian, Vanagan; Tibbs, Harold E.; Tripp, Harlan P.; Venarde, Jack H.; Whitson, Harold E.; Williams, John C.; Williams, Johnnie E.; Wolfe, Clarence L.; Wolk, Norman B.; Yeager, James C.

The following is a list of the officers and men installed in the local chapter: James I. Mueller, B. S. Ohio State, Ph.D. MSM '49; President; Bernard Cohen, B. S. MSM '48, Vice-President; Stephen Hasko, MSM '48, Treasurer; J. Earl Brady, B. S. MSM '48, Secretary; Henry Brassfield, B. S. MSM '48, Herold; John F. Burst, Edmond P. Hyatt, Tad Kawaguchi, Edward Laird, Bob L. Mornin, Edward E. Mueller, Ralph C. Padfield, Thoy J. Blange, Marj. B. Spurrier, Aldon P. Annis, Paul E. Hoey, Charles L. McKinnis.

These students installed here today were selected for their scholarship, character and high ideals. A banquet was held in the early evening at the "Houston House." Speakers for the occasion included Prof. C. M. Dodd who expressed the enjoyment he received in again returning to MSM after an absence of nine years. Dr. S. R. Scholes praised the work of Dr. Herold in bringing the Ceramics Department here to one of the top in the nation. Dean Williams, concluded with an acknowledgement of his appreciation for the acceptance of the local Ceramics department into the Ceramics Society.

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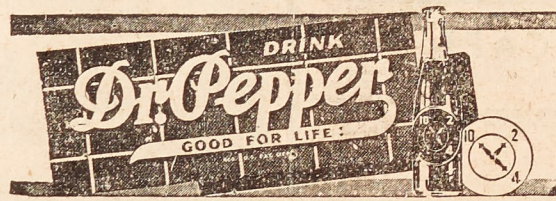
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Canada, its principal object is to promote and emphasize scholarship and character in the thoughts of Ceramic students, to stimulate mental achievement and to promote interest in Ceramic art, technology and engineering. It also seeks to bind more closely the alumni to the alma mater and to

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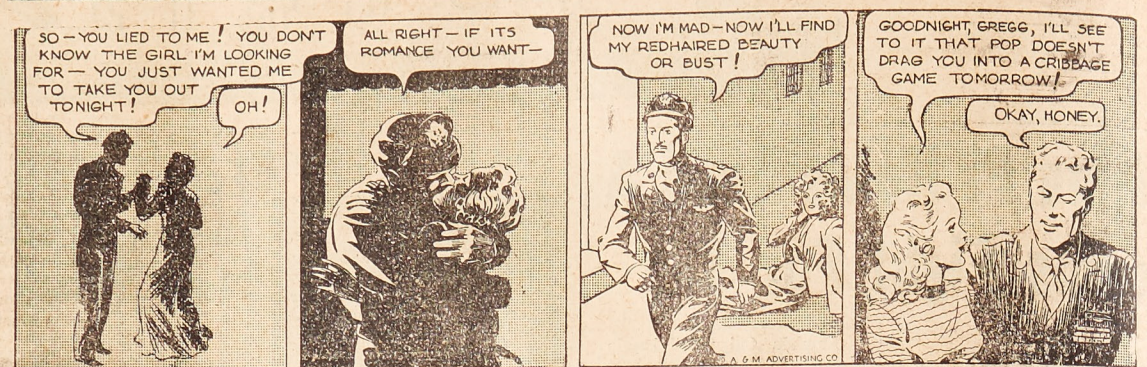
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AIEE SEES MOVIE

Continued From Page One

to school to make sure all the transportation needed is available. The entertainment committee will see that the boys have something to do besides drink beer and swim - if they want to do anything else. The fee was set at 75 cents to help defray the cost of guzzling. All EE's are invited and now's the

time to get to know your fellow EE's and the EE teaching staff. Pay the 75c to Mrs. Smith in the EE office Norwood Hall. The deadline for the collection is this Sat. so hurry up and put down your money and be able to drink all the beer you can take by the rippling waters of the Gasconade River. Those coming must bring their own bathing suit.

ASCE MEETING

(continued from page 1)

tract specified grading of clay and loose rock, which to all outward appearances seemed the case. The contractor ran into solid rock on the job, with the result that he was forced to sue to regain his losses on the job. Time and expense could have been saved by consulting a geologist before construction began. A geologist would have insisted on additional test holes being bored to determine the nature of the ground, as underground rock ridges are peculiar to this section of the state.

At a site picked for a dam on the Meramec River, the engineer and geologist found a spring entering the river at water level from a large cave. Through study of the cave and of the surrounding geology, it was determined that the pressure of 60 feet of water in a dam would cause the spring to back up, thus re-routing a great amount of water around the dam. The dam site was moved upstream.

Rock faults and glacial areas give particular trouble to the en-

gineer in tunneling. During construction of a tunnel in Arkansas, a fault was encountered, and the geologist suggested additional bracing for the tunnel at this point. His suggestion was not carried out, and the tunnel caved, causing much additional expense and loss of time. In a glaciated area in the west, a tunnel started through granite struck a channel gouged out of the rock by ice in prehistoric ages, and now filled with sand and gravel. Twenty-five men were killed on the job when the tunnel was flooded.

The civil engineer needs a knowledge of the strength and bearing capacity of the various rock structures when working with very heavy construction, such as dams, bridges, and large buildings. Geologists should be consulted on all projects where geologic features may affect the planning or the outcome of the job. The successful recognize the existence of geologic problems, and know how to secure the necessary information to plan his work.

Jackling Terrace ... (Continued from Page 9)

summer, and will have approximately 250 this fall. Comparison of the size of this group with the size of the average fraternity, or even with the Engineers Club, will give a pretty good idea of just why they are a sure bet to become a strong intramural contender in the near future.

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